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Patent Abstracts of Japan

 $R^1 - (OR^2)_n - OC(=O) - (R^3 O)_m - R^4$

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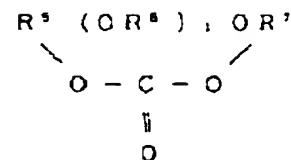
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TITLE : ELECTROLYTIC SOLUTION,
 POLYMER GEL ELECTROLYTE
 USING IT, AND ITS APPLICATION

ABSTRACT : PROBLEM TO BE SOLVED: To provide a polymer gel electrolyte that is high in ion conductivity and has wide service temperature and stable voltage ranges by containing an oxyalkylene carbonate compound of a specific composition and an electrolytic solution in an electrolytic solution or the polymer gel electrolyte. SOLUTION: An electrolytic solution contains an oxyalkylene carbonate compound represented by formula I or II and an electrolyte. In the formula, $R<1>$ and $R<4>$ each represent a straight-chain, branched, or cyclic, alkyl or fluoroalkyl group of not less than 1 to not more than 20 carbons; $R<2>$, $R<3>$, $R<6>$, and $R<7>$ each represent a straight-chain, branched, or cyclic, alkylene or fluoroalkylene group of not less than 1 to not more than 20 carbons; (n) and (m) each represent an integer of not less than 1; either (m) or (n) may be 0; and I represents an integer of not less than 0.



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